Binary Tree: left, right pointer



Terms:



Node: Each item are called nodes



Subtree: part of tree

depth: up to down

height: down to up (max depth subtree)

If a tree has only left or right pointer, then it is simply linked list

Why BT:

performs operations in log(n) time.

Traversal of nodes or items:



In Order Traversal:

For Every Node X:

1.Nodes in left of node X before X

2.Nodes in right of node X right after X

Algorithm:

Iter(X):

1. Iter(X.left)
2. Output(X)
3. Iter(X.right)